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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete If Known	
				Application Number	Unassigned
				Filing Date	Herewith
				First Named Inventor	BARBEE, Robert Boyd
				Group Art Unit	1714
Examiner Name	Wyrozebski Lee				
Attorney Docket Number	USC12.CON1				
Sheet	1	of	10		

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
KWL	A01	6,447,860		Mueller et al.	09-10-2002	
	A02	6,417,262		Turner et al.	07-09-2002	
	A03	6,407,155		Quian et al.	06-18-2002	
	A04	6,403,231		Mueller et al.	06-11-2002	
	A05	6,391,449		Lan et al.	05-21-2002	
	A06	6,384,121		Barbee et al.	05-07-2002	
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	A08	6,350,805		Korbee et al.	02-26-2002	
	A09	6,254,803		Matthews et al.	07-03-2001	
	A10	6,232,388		Lan, et al.	05-15-2001	
	A11	6,156,835		Anderson et al.	12-05-2000	
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	A16	6,071,988		Barbee et al.	06-06-2000	
	A17	6,057,396		Lan et al.	05-02-2000	
	A18	6,060,549		Li et al.	05-09-2000	
	A19	6,050,509		Clarey et al.	04-18-2000	
KWL	A20	6,036,765		Farrow et al.	03-14-2000	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
KWL	A21	EP	0940430			09-08-1999		
	A22	WO	99/38915			08-05-1999		
	A23	WO	99/15432			04-01-1999		
	A24	WO	98/53000			11-26-1998		
	A25	WO	98/29499			07/09/1998		
	A26	JP	10168305			06-23-1998		
	A27	EP	0846723			06-10-1998		
	A28	JP	10133013			05-22-1998		
	A29	JP	10077427			03-24-1998		
KWL	A30	EP	0822163		Serrano et al.	02-04-1998		
Examiner Signature		Katayama Wyrozebski				Date Considered	June 17, 2004	

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				First Named Inventor	BARBEE, Robert Boyd
				Group Art Unit	1714
Sheet	2	of	10	Examiner Name	Wyrozebski Lee
				Attorney Docket Number	USC12.CON1

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KWL	B1	6,034,163		Barbee et al.	03-07-2000	
	B2	6,017,632		Pinnavaia et al.	01-25-2000	
	B3	5,993,769		Pinnavaia et al.	11-30-1999	
	B4	5,972,448		Frisk et al.	10-26-1999	
	B5	5,952,093		Nichols et al.	09-14-1999	
	B6	5,942,320		Miyake et al.	08-24-1999	
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	B10	5,849,830		Tipursky et al.	12-15-1998	
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KIWL	B21	WO	98/01346			01-15-1998		
	B22	JP	10001608			01-06-1998		
	B23	WO	97/02323			01-23-1997		
	B24	WO	97/44384			11-27-1997		
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	B27	WO	97/30950			08-28-1997		
	B28	JP	9217012			08-19-1997		
	B29	JP	9176461			07-08-1997		
KIWL	B30	EP	780340			06-25-1997		

Examiner Signature	<i>Katarzyna Wyrozebska</i>	Date Considered	June 17, 2004
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Examiner Name	Wyrozebski Lee				
Attorney Docket Number	USC12.CON1				
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	C07	5,434,000		Konagaya et al.	07-18-1995	
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KIM	C20	5,221,507		Beck et al.	06-22-1993	

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KIM	C21	WO	97/17398			05-15-1997		
	C22	EP	0761739			03-12-1997		
	C23	JP	09048908			02-18-1997		
	C24	EP	747451			12-11-1996		
	C25	EP	681990			11-15-1996		
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	C27	WO	96/08526			03-21-1996		
	C28	EP	0691376			01-10-1996		
	C29	EP	0691212			01-10-1996		
KIM	C30	WO	95/14733			06-01-1995		

Examiner Signature	Katamyna Wyrozebski Lee	Date Considered	June 17, 2004
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KIM	D01	5,206,284		Fukui et al.	04-27-1993	
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	D09	5,037,285		Kudert et al.	08-06-1991	
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	D11	5,028,462		Matlack et al.	07-02-1991	
	D12	5,011,534		Berube	04-30-91	
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	D14	4,983,719		Fox et al.	01-08-1991	
	D15	4,983,432		Bissot	01-08-1991	
	D16	4,957,980		Kobayashi et al.	09-18-1990	
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	D18	4,894,411		Okada et al.	01-16-1990	
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KIM	D20	4,810,734		Kawasumi et al.	03-07-1989	

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KIM	D21	EP	650994			05-03-1995		
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	D23	JP	7026123			01-27-1995		
	D24	WO	94/29378			12-22-1994		
	D25	WO	94/11430			05-26-1994		
	D26	EP	0590263			04-06-1994		
	D27	WO	93/14922			08-05-1993		
	D28	WO	93/11190			06-10-1993		
	D29	EP	542266			05-19-1993		
KIM	D30	WO	93/04125			03-04-1993		

Examiner Signature	<i>Katarzyna Wyrozowski</i>	Date Considered	<i>May 17, 2004</i>
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	E18	4,450,095		Finlayson	05-22-1984	
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	E22	EP	459472			12-04-1991		
	E23	EP	398551			11-22-1990		
	E24	EP	295336			12-21-1988		
	E25	DE	3808623			10-06-1988		
	E26	DE	3806548			09-15-1988		
	E27	EP	278403			08-17-1988		
	E28	EP	261430			03-30-1988		
	E29	JP	62073943			04-04-1987		
KWL	E30	EP	0202532			11-26-1986		

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	F16	3,823,169		Staub	07-09-1974	
	F17	3,879,283		Mercade	04-22-1975	
	F18	3,792,969		Gertisser	02-19-1974	
	F19	3,700,398		Cole, Jr.	10-24-1972	
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KWL	F21	EP	186456			07-02-1986		
	F22	WO	84/03096			08-16-1984		
	F23	GB	2123014			01-25-1984		
	F24	JP	76029697			03-09-1976		
	F25	JP	75010196			04-18-1975		
	F26	JP	75005751			03-06-1975		
	F27	JP	75005735			03-06-1975		
	F28	JP	75001156			01-16-1975		
	F29	GB	1090036			11-08-1967		
KWL	F30	WO	99/41299			08-19-1999		

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				Filing Date	Herewith
				First Named Inventor	BARBEE, Robert Boyd
				Group Art Unit	1714
				Examiner Name	Wyrozebski Lee
(use as many sheets as necessary)				Attorney Docket Number	USC12.CON1
Sheet	8	of	10		

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Sheet 9 of 10

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Application Number	Unassigned
Filing Date	Herewith
First Named Inventor	BARBEE, Robert Boyd
Group Art Unit	1714
Examiner Name	Wyrozebski Lee
Attorney Docket Number	USC12.CON1

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or county where published.	T ¹
KIW	11	LEBARON et al., "Polymer-Layered Silicate Nanocomposites: an Overview," <i>App. Clay Sci.</i> , 15, 11-29 (1999)	
	12	KE et al., "Crystallization, Properties, and Crystal Nanoscale Morphology of PET-Clay Nanocomposites," <i>J. Appl. Polym. Sci.</i> , 71, 1139-1146 (1999)	
	13	GIANNELIS, "Polymer Layered Silicate Nanocomposites," <i>Advanced Materials</i> , 8, 29-35 (1996)	
	14	ORIAKHI et al., "Incorporation of poly(acrylic acid), poly(vinylsulfonate) and poly(styrenesulfonate) within layered double hydroxides," <i>J. Mater. Chem.</i> , 6, 103-107 (1996)	
	15	MESSERSMITH et al., "Synthesis and Barrier Properties of Poly(t-Caprolactone)-Layered Silicate Nanocomposites," <i>J. of Polym. Sci.</i> , 33, 1047-1057 (1995)	
	16	SUGAHARA et al., "Clay-Organic Nano-Composite; Preparation of a Kaolinite - Poly(vinylpyrrolidone) Intercalation Compound," <i>J. Ceramic Society of Japan</i> , 100, 413-416 (1992).	
	17	YANO et al., "Synthesis and properties of polyimide-clay hybrid," <i>ACS, Polymer Preprints</i> , 32, 65-66 (1991)	
	18	FUKUSHIMA et al., "Swelling Behavior of Montmorillonite by Poly-6- Amide," <i>Clay Minerals</i> , 23, 27-34 (1988)	
	19	VERBICKY, <i>Encyclopedia of Polymer Science and Engineering</i> , 2 nd Edition, 12, 364-383 (1988)	
	110	FUKUSHIMA et al., "Synthesis of an Intercalated Compound of Montmorillonite and 6-Polyamide," <i>J. Inclusion Phenomana</i> , 5, 473-482 (1987)	
KIW	111	OKADA et al., "Synthesis and Characterization of a Nylon 6-Clay Hybrid," <i>ACS, Polymer Preprints</i> , 28, 447-448 (1987)	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	Unassigned
				Filing Date	Herewith
				First Named Inventor	BARBEE, Robert Boyd
				Group Art Unit	1714
				Examiner Name	Wyrozowski Lee
Sheet	10	of	10	Attorney Docket Number	USC12.CON1

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KIW	J1	FAHN ET AL., "Reaction Products or Organic Dye Molecules with Acid-Treated Montmorillonite," <i>Clay Minerals</i> , 18, 447-458 (1983)	
	J2	GREENLAND, "Adsorption of Polyvinyl Alcohols by Montmorillonite," <i>J. Colloid Sci.</i> , 18, 647-664 (1963)	
	J3	T. J. PINNAVAIA and TIE LAN, "Clay-Reinforced Epoxy Nanocomposites," <i>Chem. Mater.</i> , 6, 2216 (1994) ^r	
	J4	Y. KUROKAWA, H. YASUDA, A. OYA, "Preparation of a Nanocomposite of Polypropylene and Smectite," <i>Mater. Sci. Letters</i> , 15, 1481 (1996)	
	J5	M. KAWASUMI, N. HASEGAWA, M. KATO, A. USUKI, and A. OKADA, "Preparation and Mechanical Properties of Polypropylene-Clay Hybrids," <i>Macromolecules</i> , 30, 6333 (1997)	
	J6	A. USUKI, M. KATO, A. OKADA, T. KURAUCHI, "Synthesis of Propylene-Clay Hybrid," <i>J. App. Polym. Sci.</i> , 63, 137 (1997)	
KIW	J7	C.O. SRIAKHI et al. <i>J. Mater. Chem.</i> , 6, 103 (1996).	

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